

Measuring efficiency at local government level

Marjan Nikolov

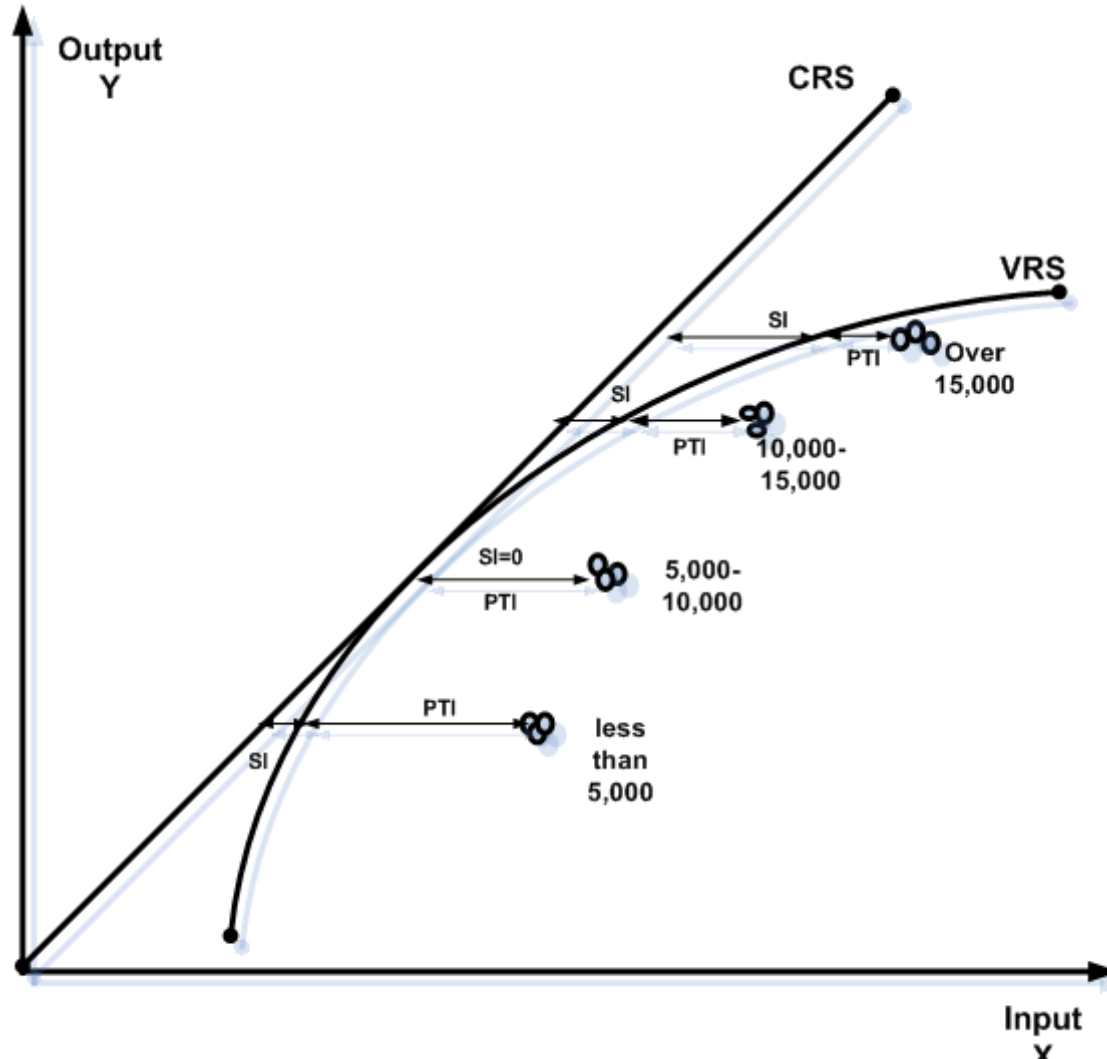
VARIABLES

FIRST STAGE: DEA-VRS ESTIMATION	
INPUT VARIABLES Current expenditures	Ministry of Finance, 2010 excel database received from the Treasury Department
OUTPUT VARIABLES Population - ages 0-4 Population - ages 5-19 Population - ages 20 to 64 Population –ages over 65 Length of asphalt-equivalent roads (kilometers)	State Statistical Office (SSO), 2010 estimates of population 2009 for length of roads

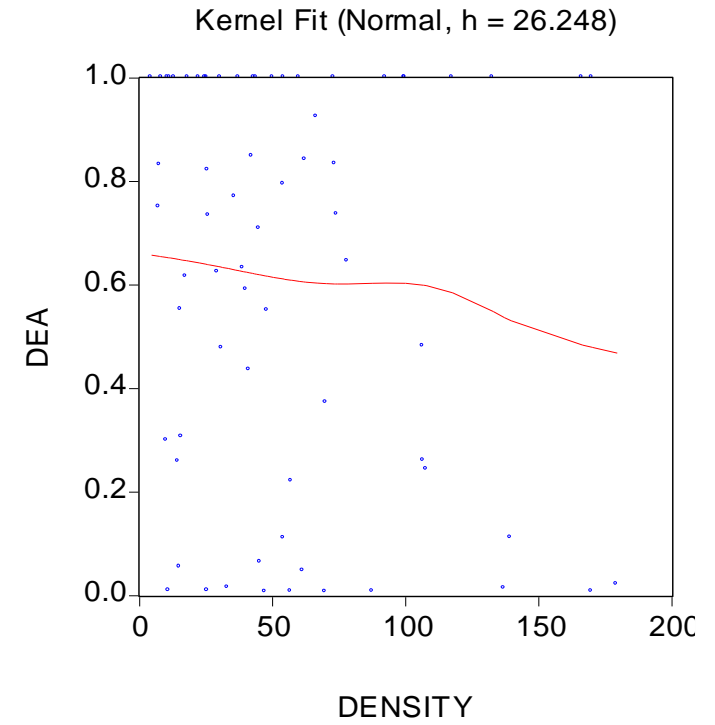
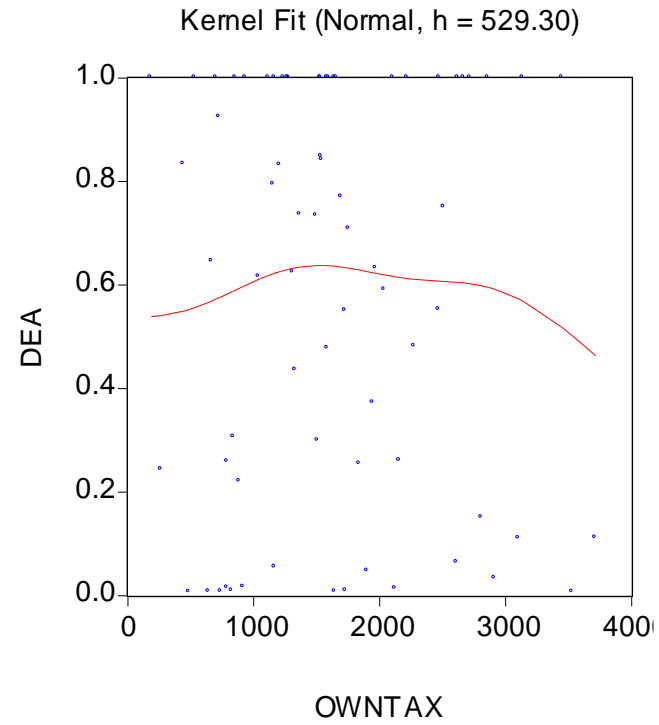
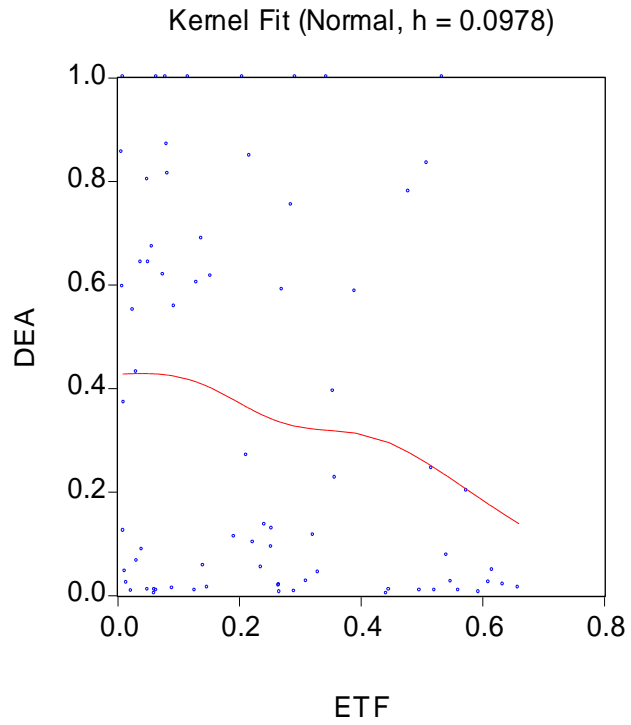
Findings

Size class	DEA efficiency scores	SFA efficiency scores
All sizes	0.596	0.573
POP < 5,000	0.502	0.585
5,000 ≤ POP < 10,000	0.831	0.585
10,000 ≤ POP < 15,000	0.810	0.720
15,000 ≤ POP < 20,000	0.720	0.614
20,000 ≤ POP < 60,000	0.400	0.551
POP ≥ 60,000	0.218	0.345

Findings graphically



Findings



Thank you